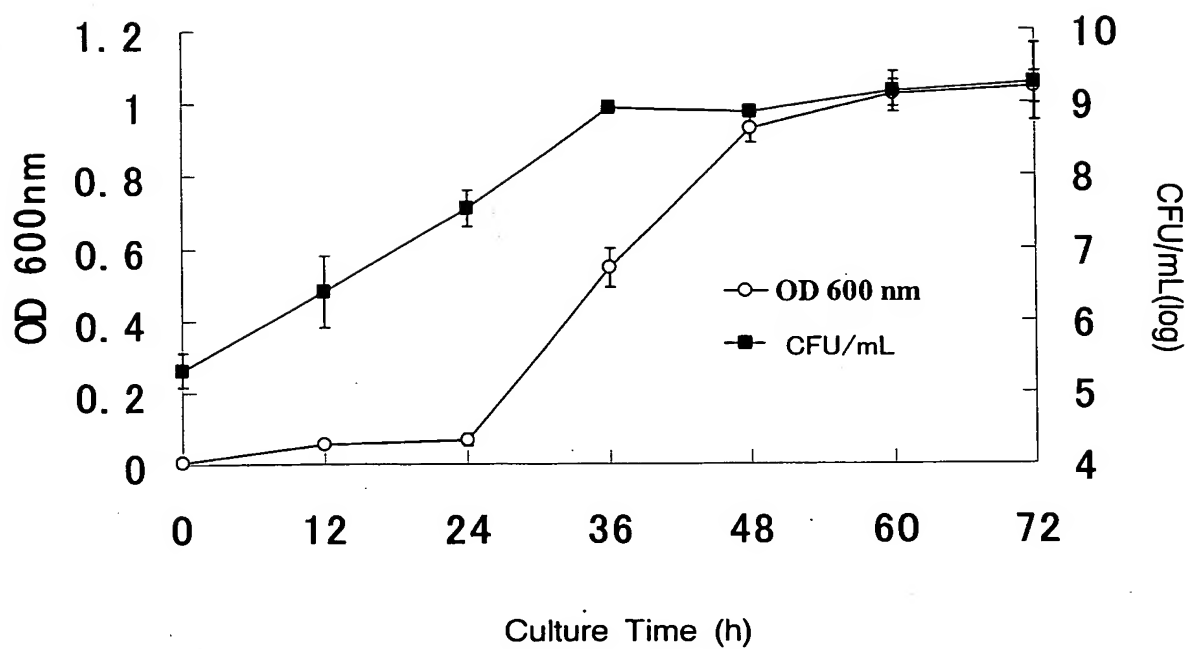




Fig. 1



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Fig. 2

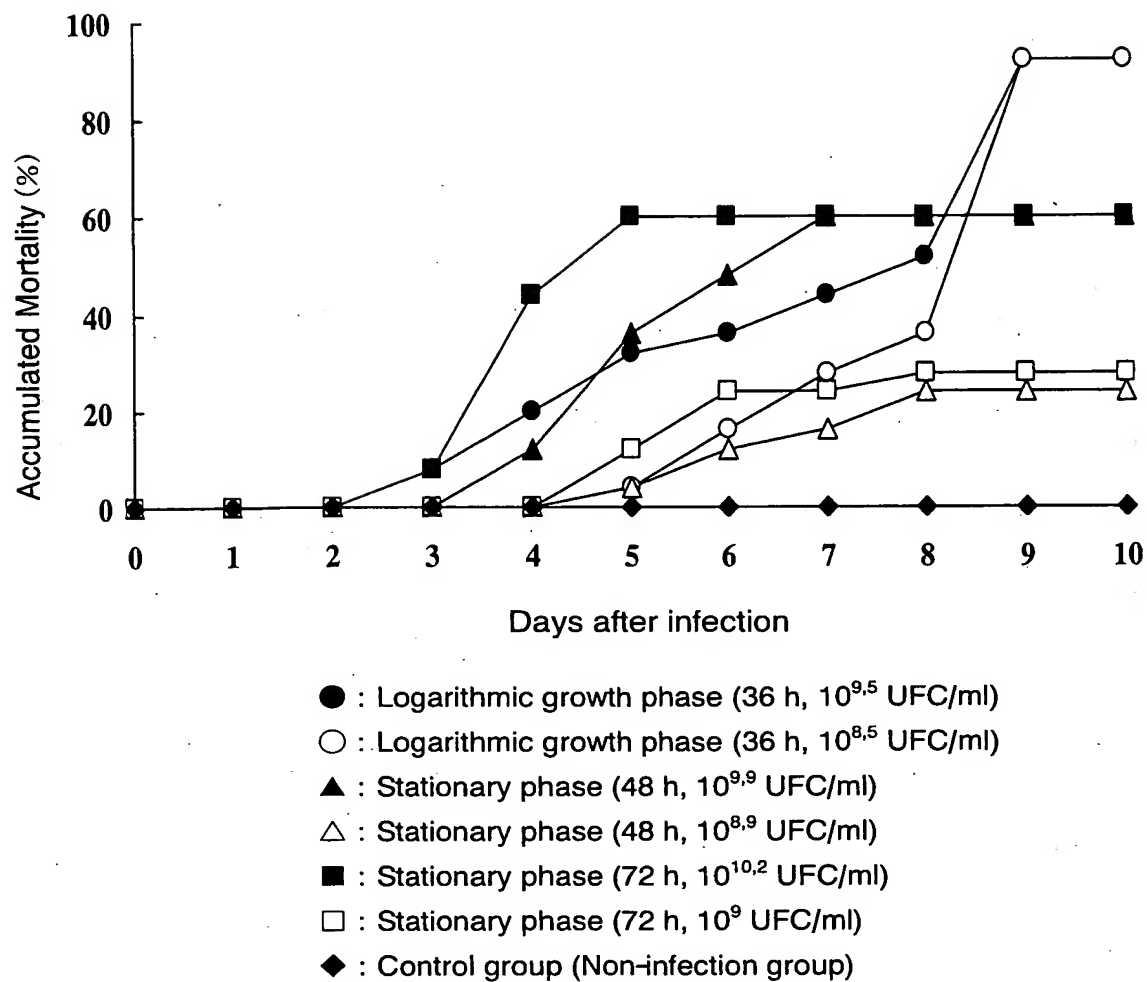
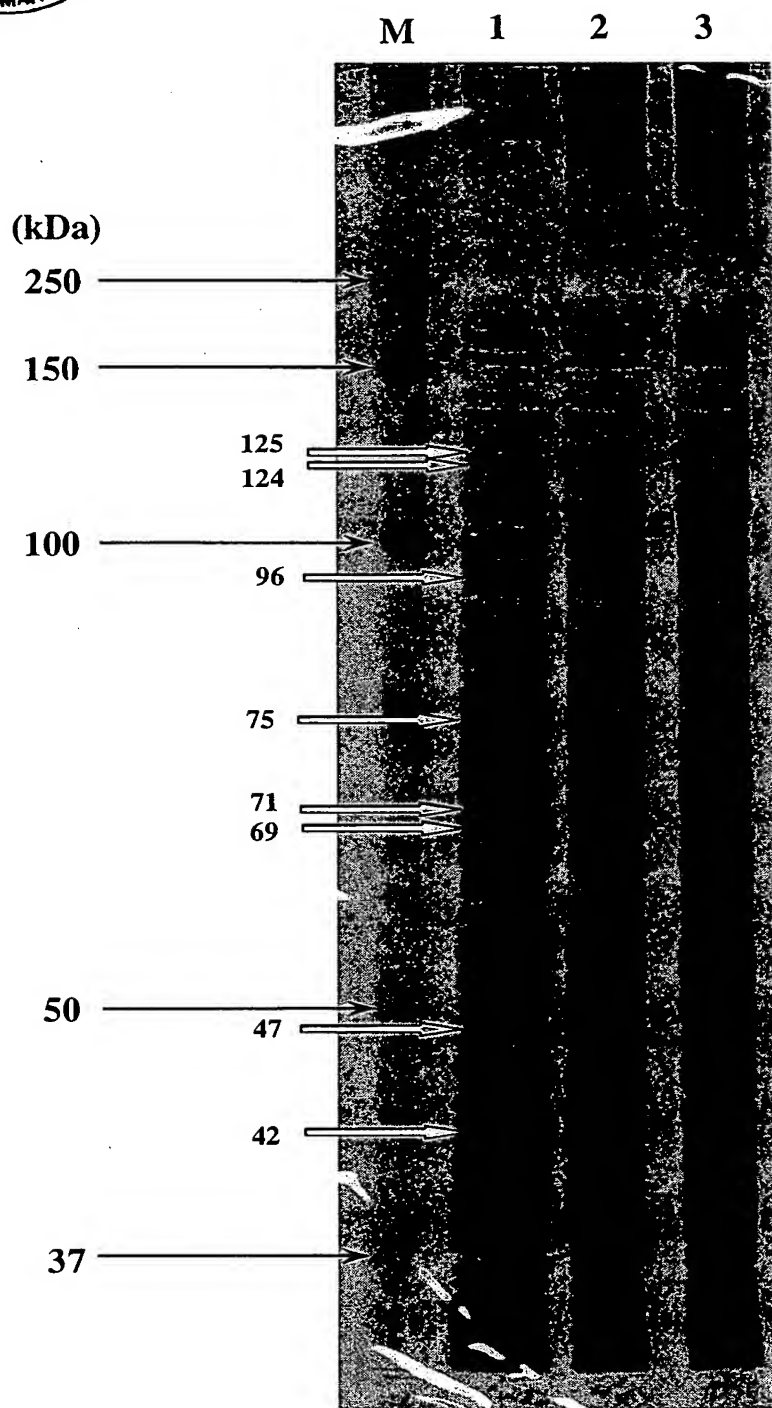




Fig. 3



M: Molecular weight marker

Lane 1: Logarithmic growth phase (36 h)

Lane 2: Stationary phase (48 h)

Lane 3: Stationary phase (72 h)

Arrow: Bands specific to logarithmic growth phase



Fig. 4

Logarithmic growth
phase (36 h)

Stationary phase
(48 h)

Stationary phase
(72 h)

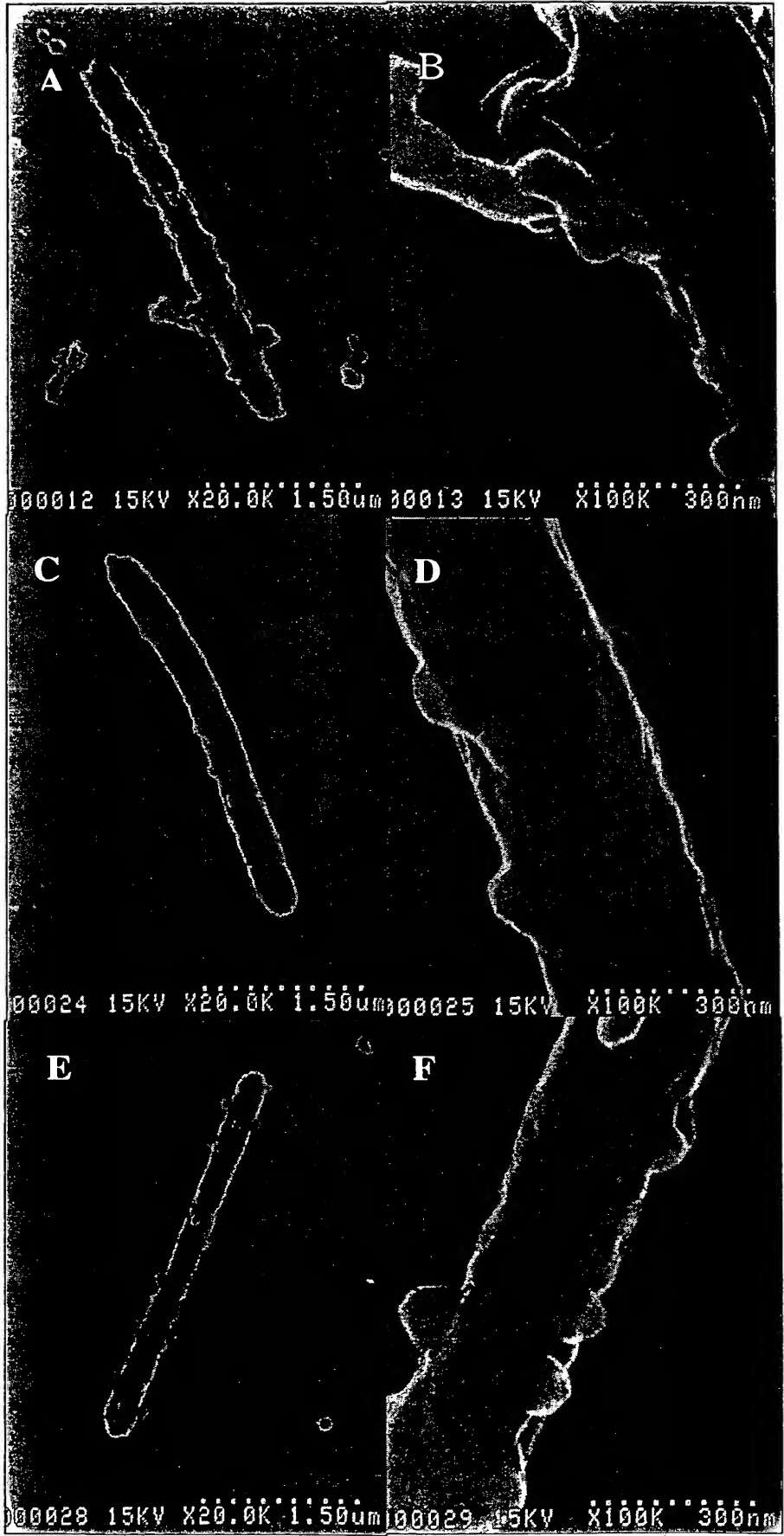
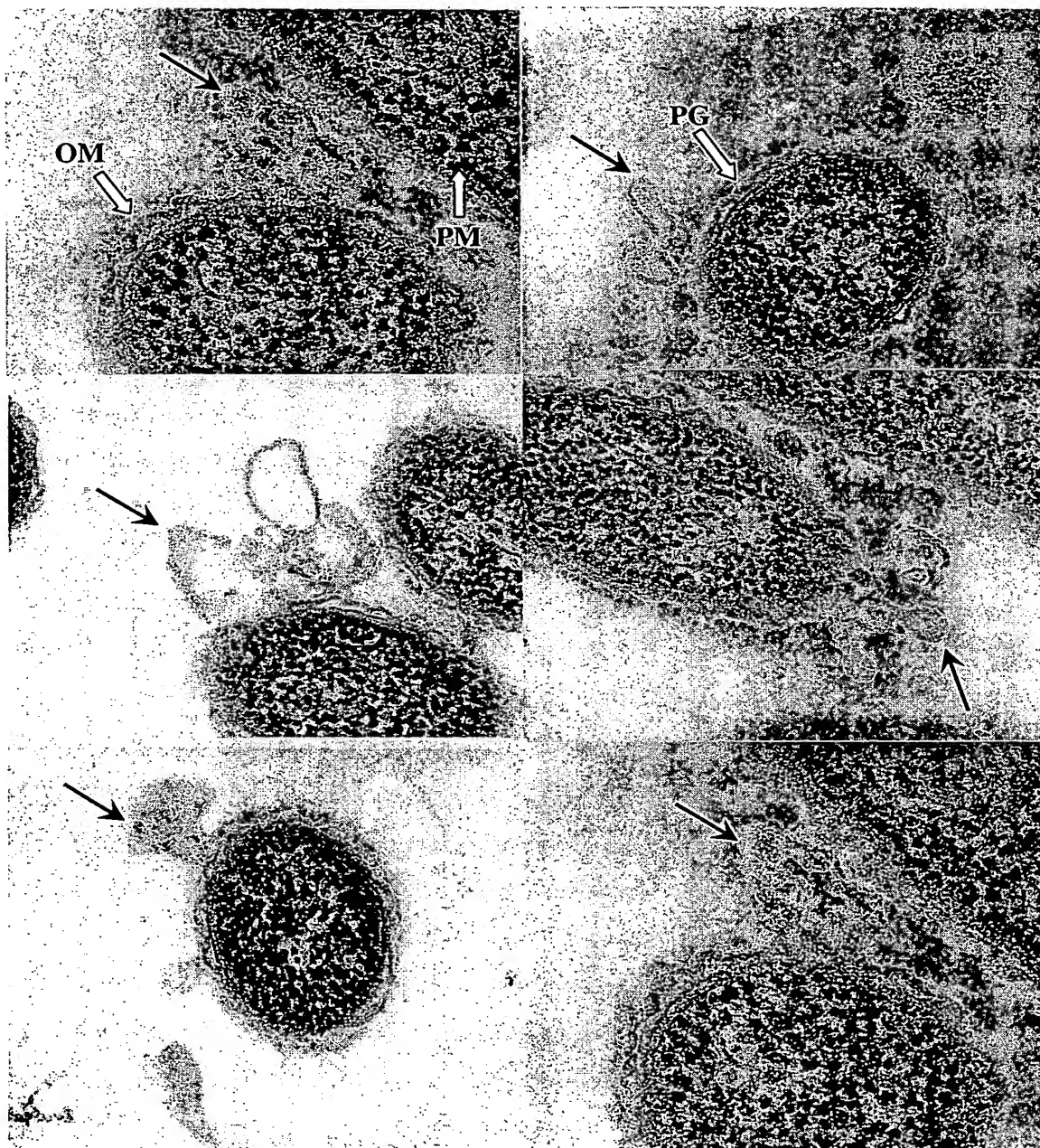


Fig. 5



OM: Outer membrane

PG: Peptidoglycan membrane

PX: Plasma membrane

Arrow: Projections on the cell surface



Fig. 6

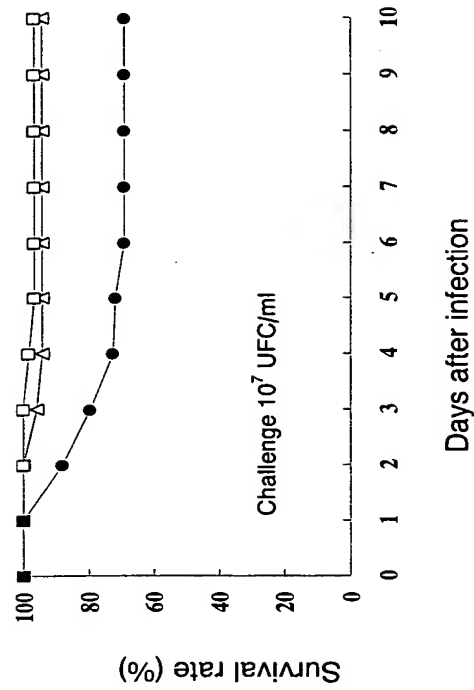
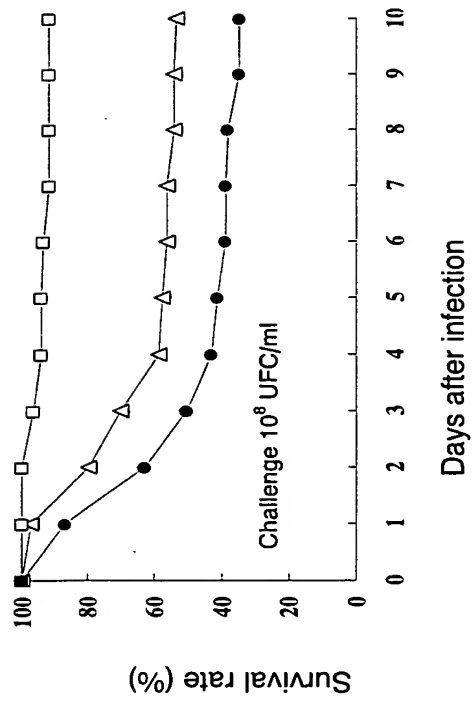


A = Magnification $\times 2.500$

B = Magnification $\times 20.000$

Fig. 7

Challenge 1 (3 days after vaccine administration)

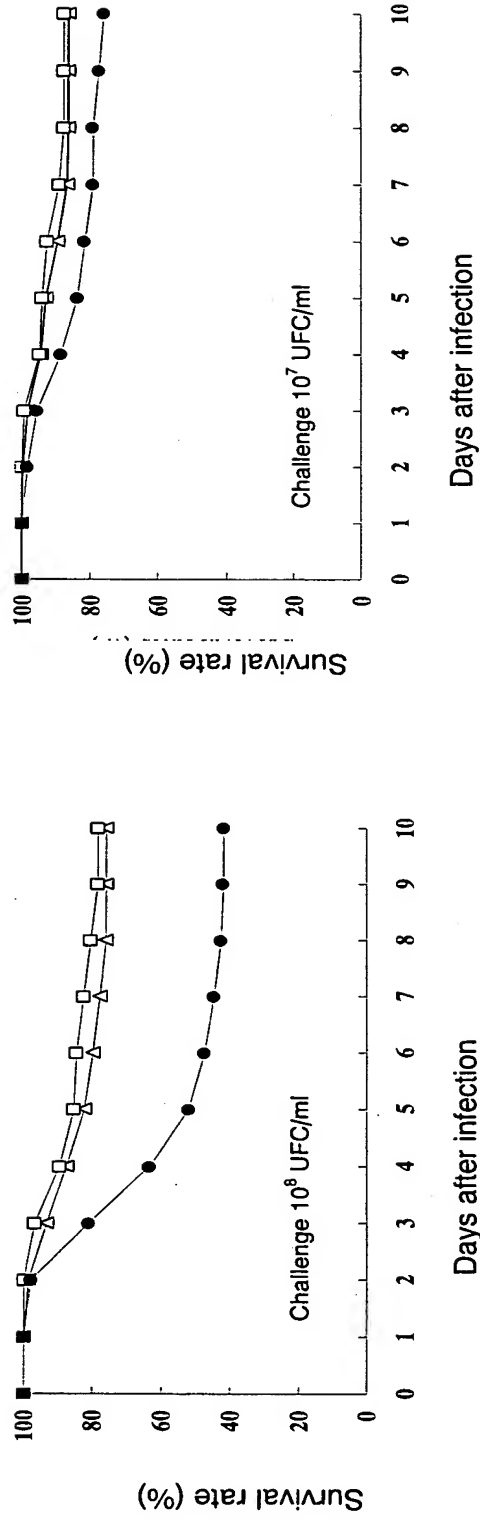


- △ : Everyday administration
- : 5 days' administration in 2 weeks
- : Control group



Fig. 8

Challenge 2 (7 weeks after vaccine administration)



- △ : Everyday administration
- : 5 days' administration in 2 weeks
- : Control group



Fig. 9

Bar = 20 mm

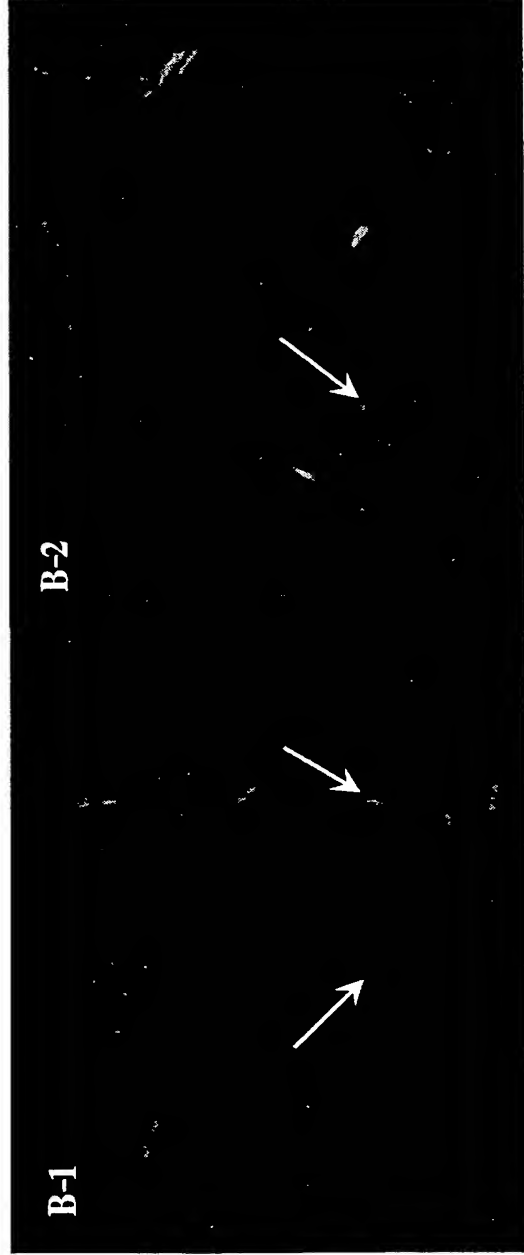


Fig. 10

× 1,000

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